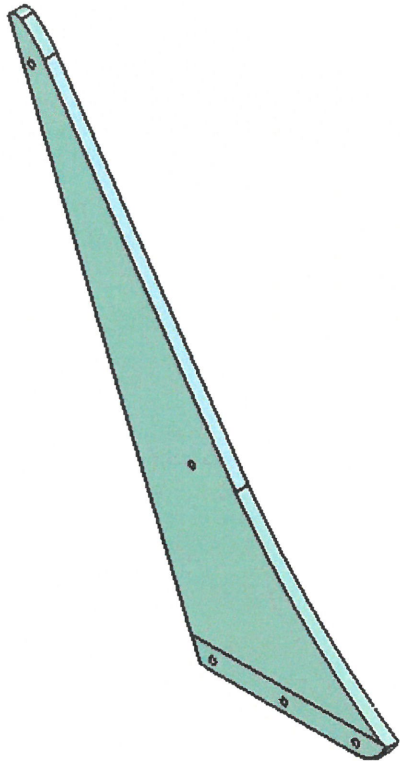
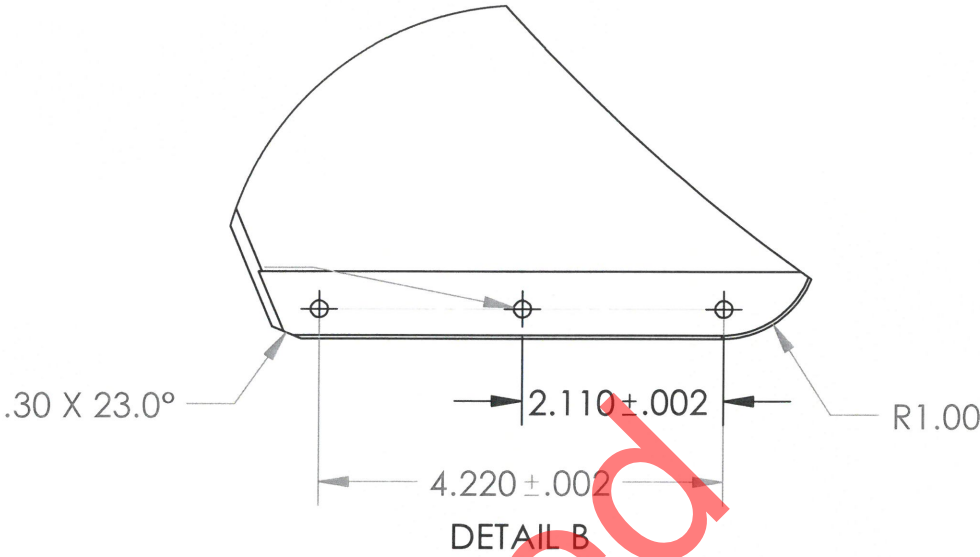
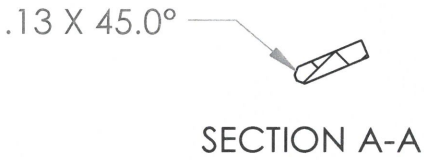


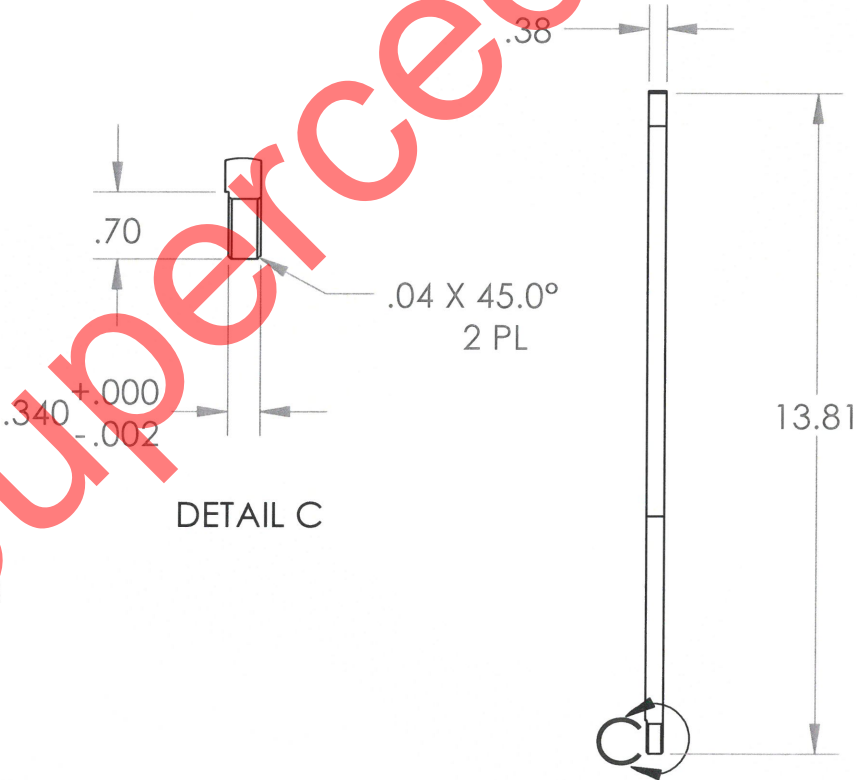
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|--|----|-------------------------------------|-------------------------|---|-------------------------|---|--|---|
| <div style="font-size: 2em; font-weight: bold;">APICAL</div> <div>INDUSTRIES, INC.</div> |    | ENGINEERING CHANGE NOTICE NO. 04743 |                         |   |                         |   | SHEET 1 OF 1   |   |
|  |    | DWG NO. 647.1500                    |                         | REV: NC   | PREPARED BY<br>T. CROSS | DATE: 11/17/14  |  | EFFECT ON DWG<br><input checked="" type="checkbox"/> INC. <input type="checkbox"/> UNINC. |
|  |    | DWG TITLE: DEFLECTORS               |                         |   |                         |   |  |   |
| TRANSACTION CODES (TC):<br>A-ADD      C-CREATE<br>R-REVISE   D-DELETE                    |    | APPROVED BY:                        | ENGR <i>[Signature]</i> | MFG <i>[Signature]</i>  | QC <i>[Signature]</i>   | EFF:  | NEXT ORDER   |   |
|  |    | REASON: REVISED BOM                 |                         |   |                         |   | ECR:   | NONE  |
| Superseded   |    |                                     |                         |   |                         |   |  | ACTION LIST:<br>1. NONE   |
| 4  | R  | 600.0523                            | 2                       | RIVET   |                         | MS20470AD4-12   |  |   |
| F/N  | TC | PART NUMBER                         | .1501<br>QTY            | DESCRIPTION   |                         | MATERIAL  | SPECIFICATION  |   |
| DOCUMENTS EFFECTED:  |    |                                     |                         | <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRU <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM |                         | CHANGE CATEGORY<br><input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR | DER REVIEW REQUIRED<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |   |

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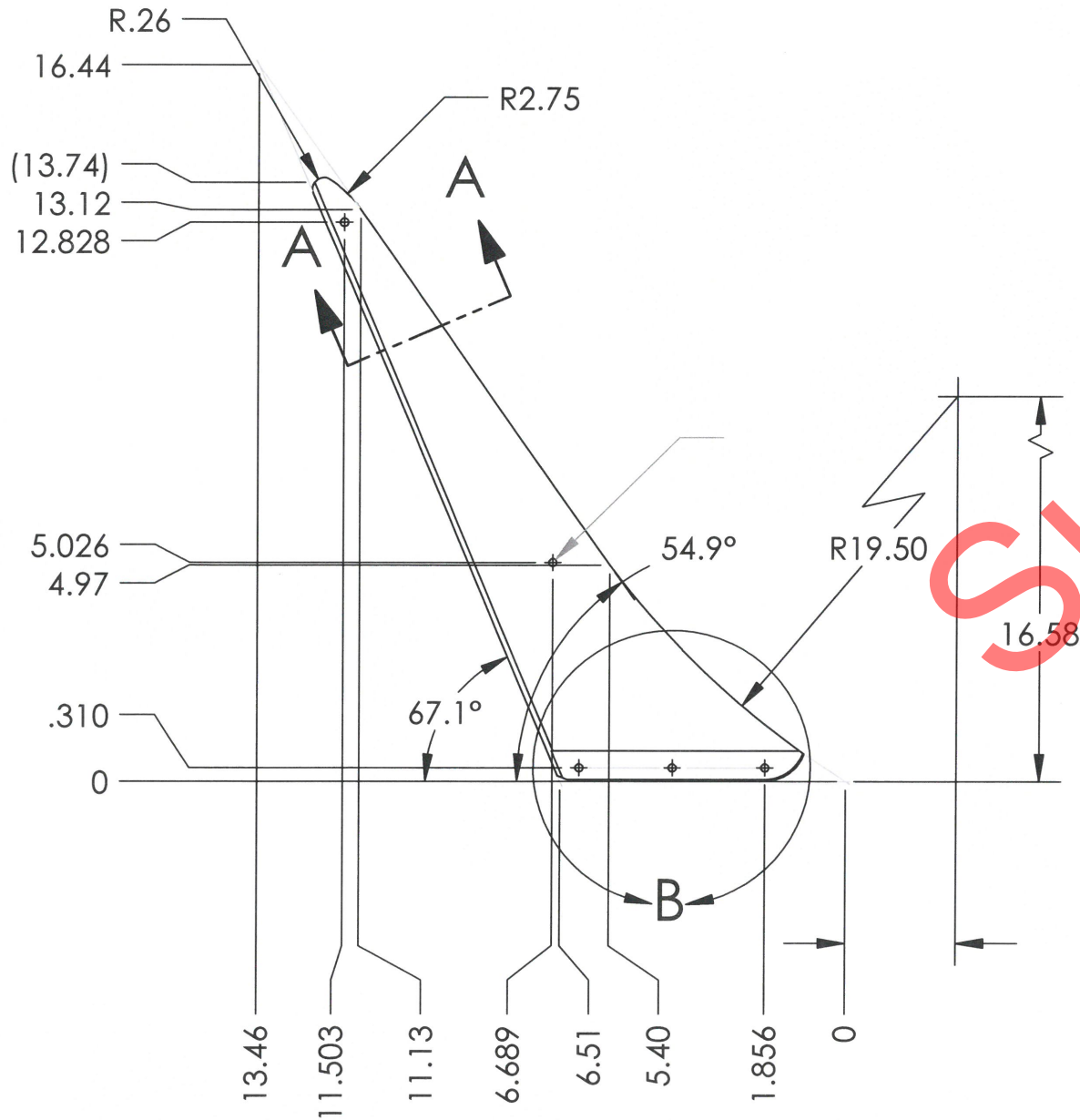
| REVISIONS |                                      |          |          |
|-----------|--------------------------------------|----------|----------|
| REV.      | DESCRIPTION                          | DATE     | APPROVED |
|           | LAST PROTOTYPE REVISION: PR1         |          | N/C      |
| N/C       | INITIAL RELEASE                      | 06/10/09 | P. BRAVO |
| A         | INCORPORATED ECN 02960, 04676, 04743 | 11/17/14 | P. BRAVO |



647.1510



10.27



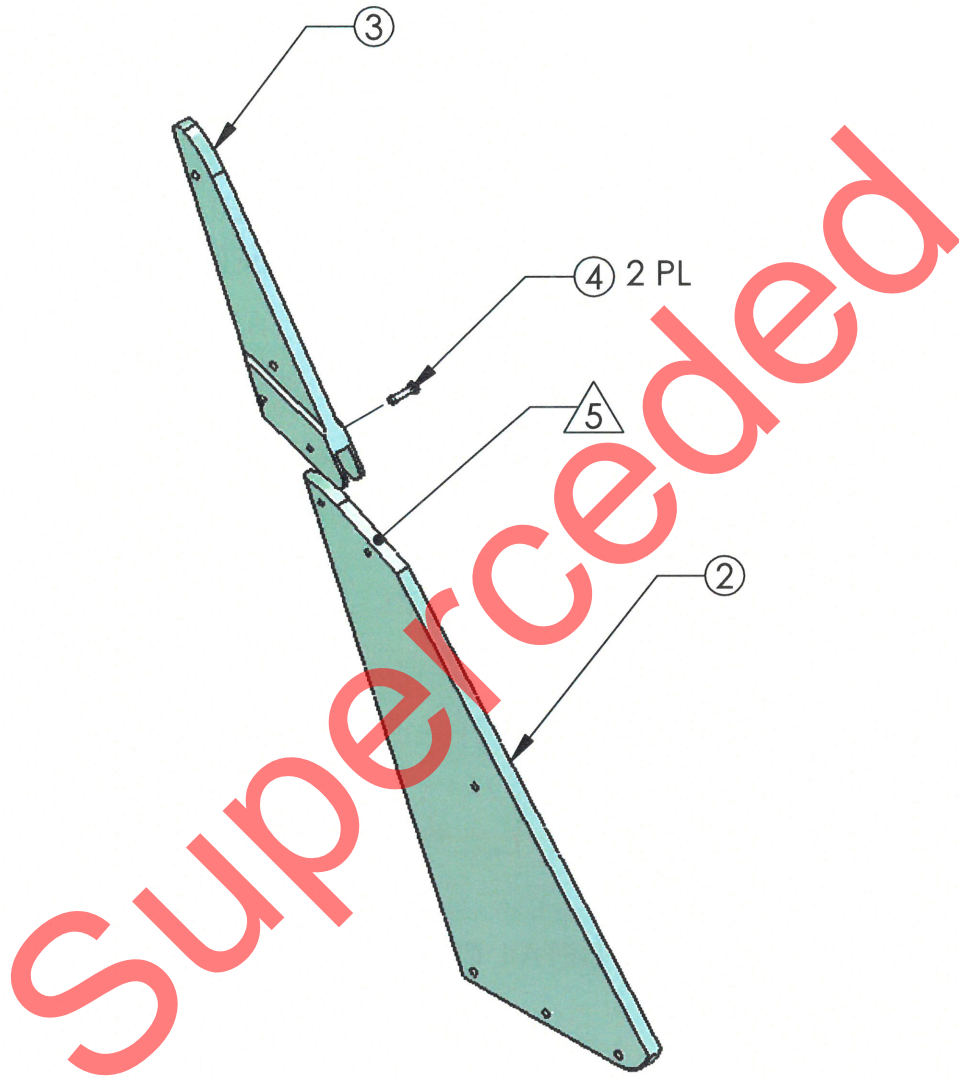
NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK; CARDINAL 4860-50 PRETREATMENT PRIMER PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX
- 3 DEBURR AND BREAK ALL SHARP EDGES
- 4 IDENTIFY IAW MPP-120
- 5 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 & 3 UPON ASSY

|  | A/R   | 5      | 601.2045 | RTV, LOCTITE 598     |               |       |
|--|-------|--------|----------|----------------------|---------------|-------|
|  | 2     | 4      | 600.0523 | RIVET                | MS20470AD4-12 |       |
|  | 1     | 3      | 647.1512 | BREAKAWAY TIP        |               |       |
|  | 1     | 2      | 647.1511 | LOWER DEFLECTOR      | 1             | 2     |
|  |       | 1      | 647.1510 | UPPER DEFLECTOR      | 1             | 2     |
|  |       |        | 647.1501 | LOWER DEFLECTOR ASSY | 1             | 2     |
|  | .1501 | FIND # | PART #   | DESCRIPTION          | MAT'L         | SPEC. |

| QTY           |  | PARTS LIST   |           |          |              |
|---------------|--|--|-----------|----------|--------------|
| NEXT ASSY (S) |  | APICAL INDUSTRIES  |           |          |              |
| 647.1400      |  | 2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |           |          |              |
|               |  | DEFLECTORS   |           |          |              |
|               |  | SIZE   | CAGE CODE | DWG. NO. | REV.         |
|               |  | B  | 07MZ6     | 647.1500 | A            |
|               |  | SCALE NONE   |           |          | SHEET 1 OF 5 |

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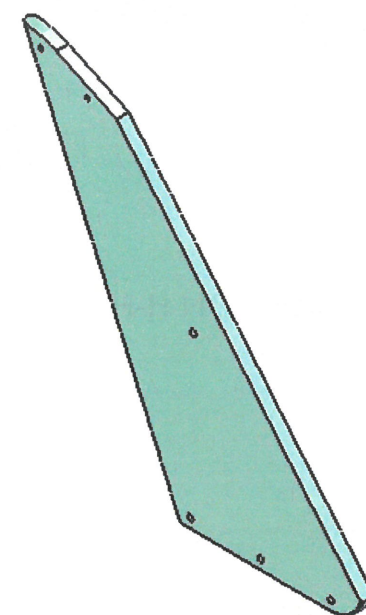
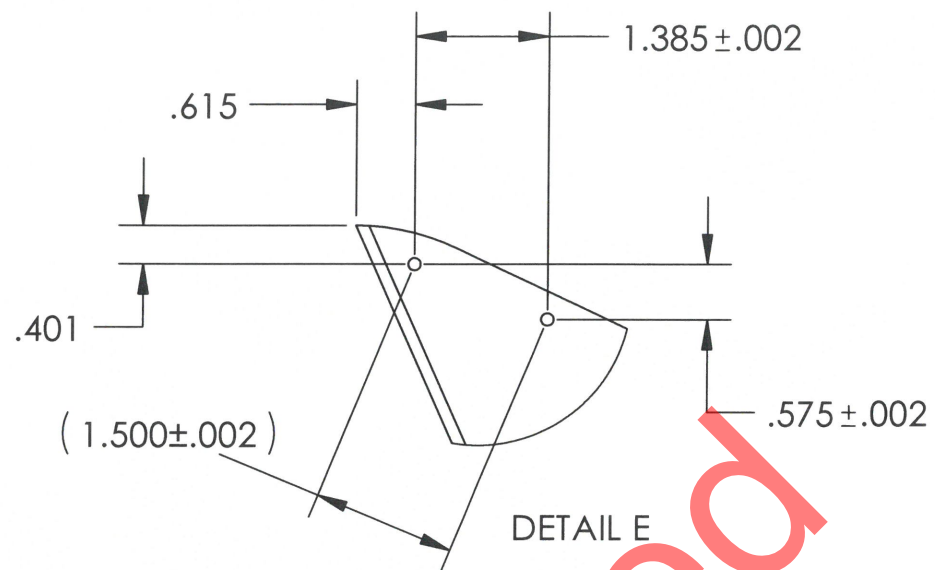
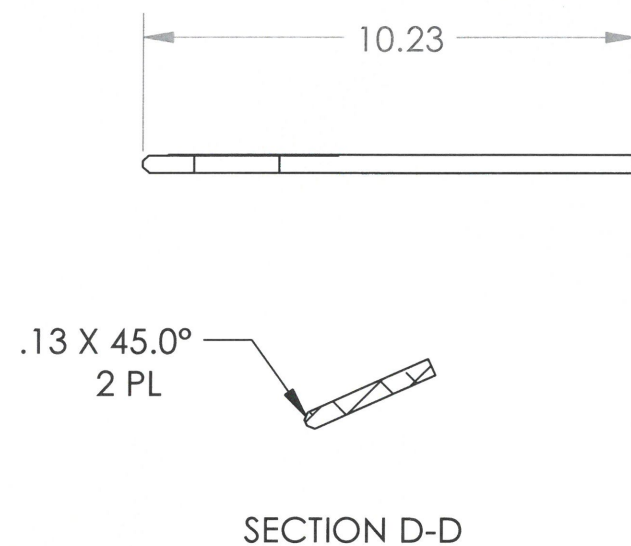
647.1501 SHOWN EXPLODED

ORIGINAL DATE  
(MO-DA-YR) 06-10-09  
DRAWN BY CHECKER  
J. GARDINER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
CONTRACT No.  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS  $\pm .01$   
3 PLACE DECIMALS  $\pm .005$   
ANGLES  $\pm .5^\circ$

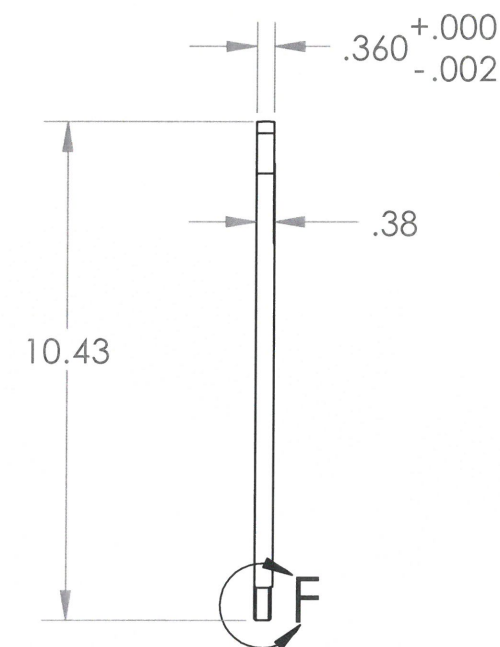
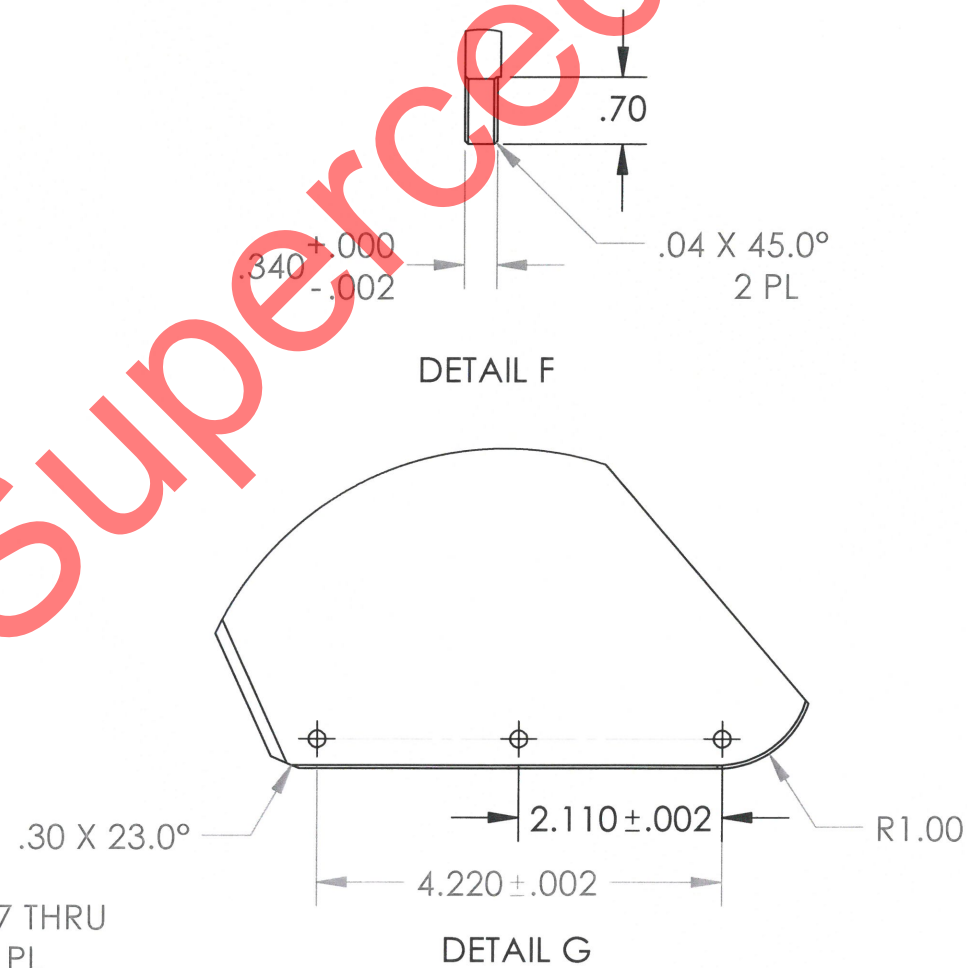
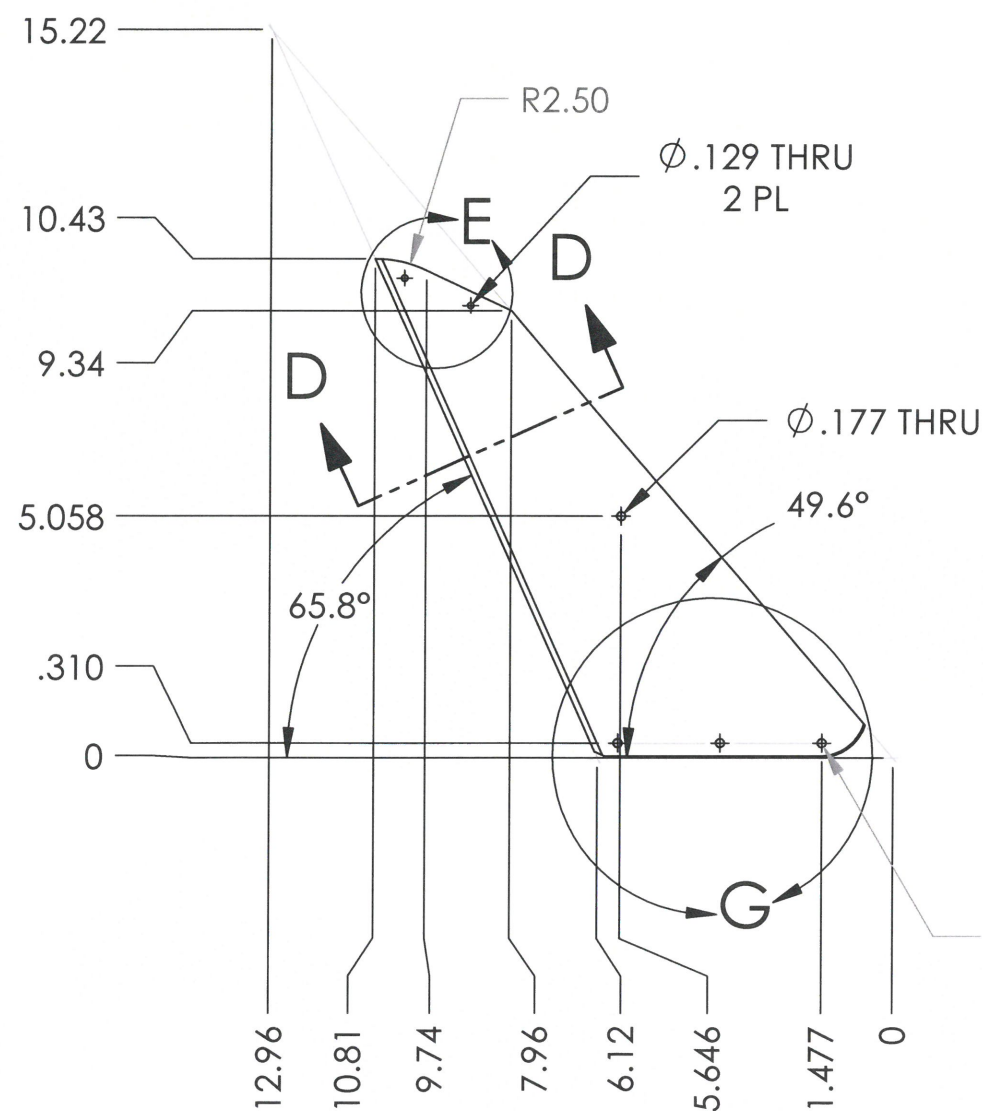
APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300  
DEFLECTORS  
SIZE CAGE CODE DWG. NO. REV.  
B 07MZ6 647.1500 A  
SCALE: NONE SHEET 2 OF 5



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647.1511



ORIGINAL DATE  
(MO-DA-YR) 06-10-09  
DRAWN BY J. GARDINER  
CHECKER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ± .01  
3 PLACE DECIMALS ± .005  
ANGLES ± .5°

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

CONTRACT No.

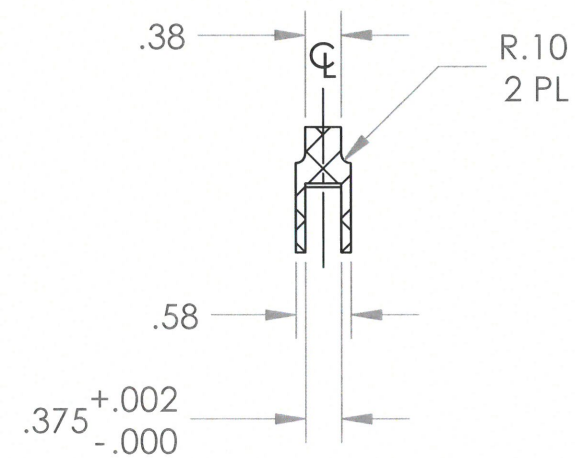
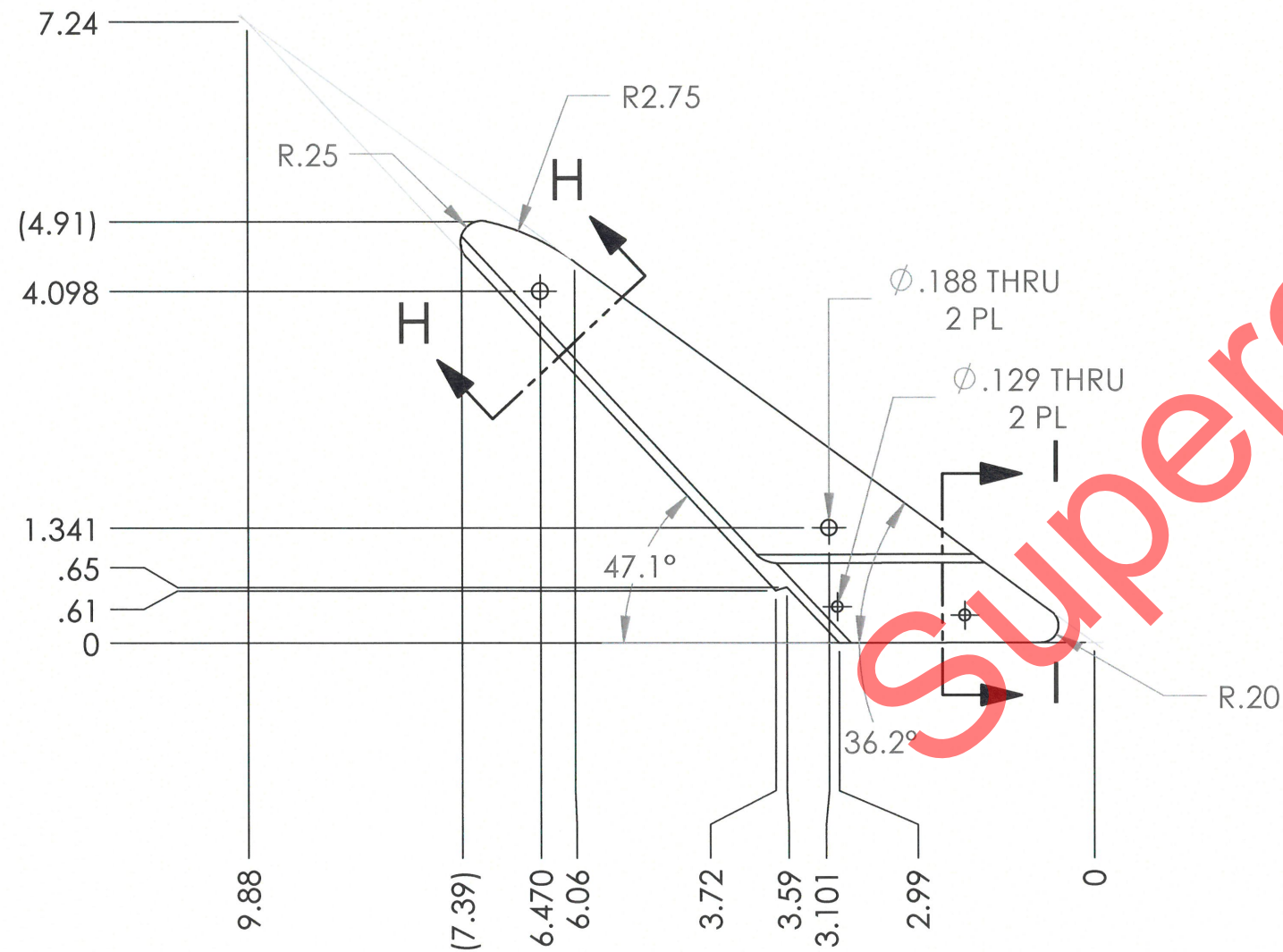
SIZE B CAGE CODE 07MZ6 DWG. NO. 647.1500 REV. A

SCALE: NONE SHEET 3 OF 5

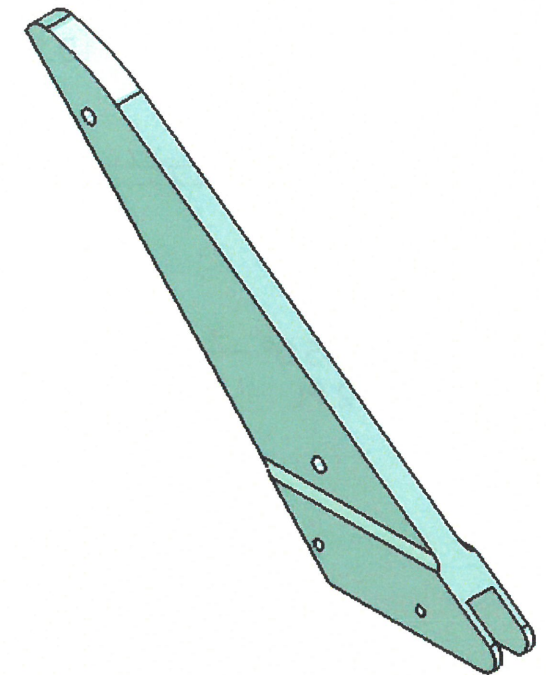
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

.13 X 45.0°  
2 PL

SECTION H-H



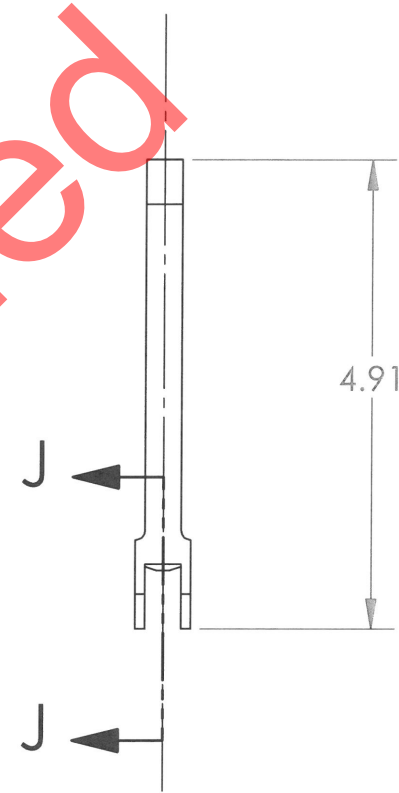
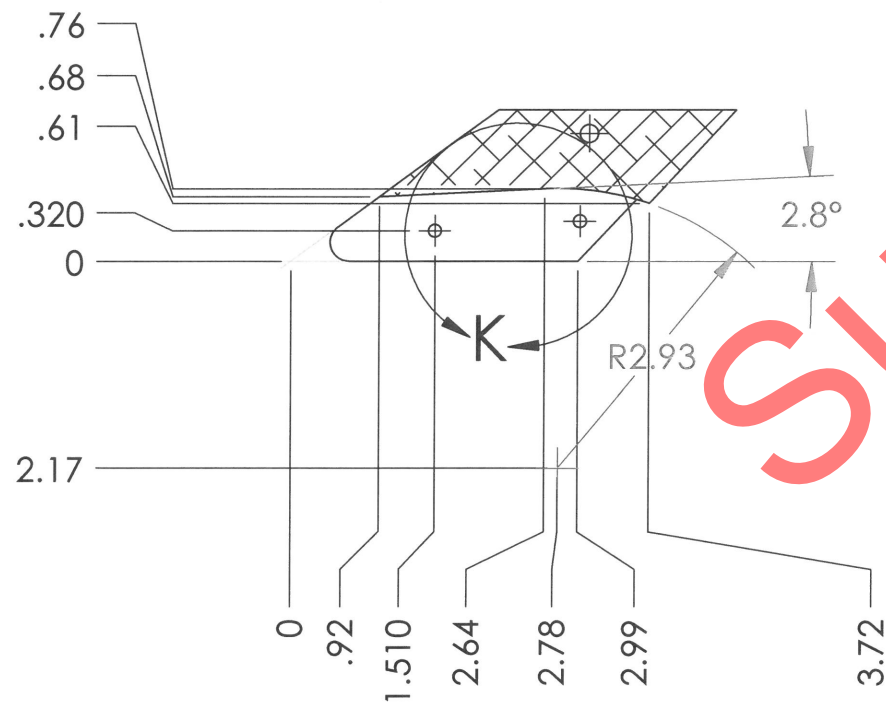
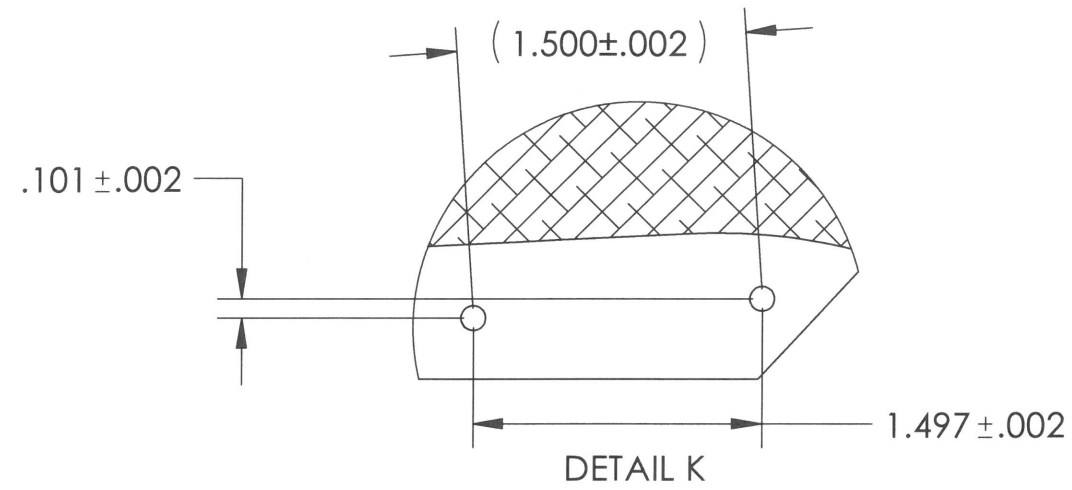
SECTION I-I



647.1512

|   |  |  |                      |
|---|--|--|----------------------|
| ORIGINAL DATE<br>(MO-DA-YR) 06-10-09  |  | APICAL INDUSTRIES  |                      |
| DRAWN BY<br>J. GARDINER   |  | 2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |                      |
| CHECKER<br>P. BRAVO   |  | DEFLECTORS   |                      |
| DRAWING APPROVAL<br>P. BRAVO  |  |  |                      |
| CONTRACT No.  |  |  |                      |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ±.01<br>3 PLACE DECIMALS ±.005<br>ANGLES ±.5° |  | SIZE<br>B  | REV.<br>A            |
|   |  | CAGE CODE<br>07MZ6   | DWG. NO.<br>647.1500 |
|   |  | SCALE: NONE  | SHEET 4 OF 5         |

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647.1512 RIGHT VIEW

SECTION J-J

ORIGINAL DATE  
(MO-DA-YR) 06-10-09  
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J. GARDINER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO

CONTRACT No.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ± .5°

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

|             |           |          |              |
|-------------|-----------|----------|--------------|
| SIZE        | CAGE CODE | DWG. NO. | REV.         |
| B           | 07MZ6     | 647.1500 | A            |
| SCALE: NONE |           |          | SHEET 5 OF 5 |